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Attitudes Toward COVID-19 Lockdown As A Risk Predictor In Panama

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Abstract

This document describes an investigation undertaken to examine attitudes towards lockdowns through COVID-19 as a psychosocial risk predictor in Panama. We conducted the study through a cross-sectional, prospective, and correlational approach. The study was constructed containing psychometric characteristics in the form of 36 Likert scale items to collect data. The instrument was sent to 233 participants via Google form between April 17 and April 30, 2020. The participants responded fully to the questionnaire. We analyzed the data by mean comparisons, correlation, and regression. There is a significant correlation between each of the studied factors and attitudes. The results indicate that women and people over the age of 51 have a positive attitude towards lockdown. Finally, from the predictive risk model in which 99.9% of the data fit., the affective factor represents 68%, the cognitive factor 22%, and the behavioral factor 10% of predictive importance for lockdown attitudes to COVID-19.

Keywords: Attitudes, Lockdown, Quarantine, Isolation, COVID-19, Risk, Predictor

Introduction

There are lessons we can take from history. Several articles have been published documenting the COVID-19 pandemic. Most of them focus on the clinical and epidemiological aspects of the pandemic. Some others address the ravaging effects on the human psyche. The former means that even though science has provided the route to understanding via scientific achievements, the virus, and its symptoms, life remains chaotic for billions from a political, cultural, economic, and psychological perspective.

Thus, social psychology gains relevance to help public understanding of social challenges they face by coexisting with a new, highly contagious virus.

Ajzen and Fishbein (1980) developed a theory of attitudes containing three elements: cognitive, other affective, and behavioral. They stated that behavior is determined by reasoning or knowledge, effectively evaluating a particular situation as positive or negative. The decision is made to act or not, permits predicting behavior (Barón & Byrne, 2005).

The knowledge that someone believes they are justified as appropriate or sufficient will permit them to opt for or against measures, in this case, quarantine by COVID-19. Their behavior will be guided by such knowledge and evaluation.

Risk factors are those that can generate inappropriate responses in terms of physical, psychological, and social health. The level of risk is determined by the frequency, duration, and intensity of the stimuli (Unda, Uribe, Jurado, García, Tovalín & Juárez, 2016).

In the case of COVID-19 lockdown, it is enough to review Zimbardo's 1971 Stanford prison experiment (Zimbardo, 1982), to understand the profound implication of risk in which millions of people live in the world that could cause aggression, addictions, and depression among others.

Another essential risk is that of living space. Calhoun's et al. (Myers, 2009) visualized social pathology caused by population density. Calhoun's rodent habitat experiment showed the extent of lockdown required to make the experimental subjects' behavior aberrant. The study provided an understanding of the problems caused by lockdown in social relationships and how it impacts those who react by resisting, enduring, coping, or tolerating an extended period of close physical proximity to others.

His work also allowed Hall et al. (Barón & Byrne, 2005) to lay the foundations of proxemics with its spatiotemporal dimensions that influence, among other aspects, social restrictions, territoriality, and above all, the

physical space necessary for a person to feel comfortable when relating to others.

From January to June 2020, there are 8416 documents related to COVID-19 indexed in Scopus and around 70000 in Google Scholar. From those, only 216 (Scopus®) and 2060 (Google Scholar®) correspond to the field of social psychology. Therefore, the scientific literature in this discipline is exceptionally scarce.

Furthermore, the fear of the unknown caused by COVID-19 has generated stigma and discriminatory behaviors towards those affected. This further contributes to a situation that already undermines social cohesion in such a way that some people might prefer to hide their illness or delay seeking medical care (Shreyaswi & Shashwath, 2020). For instance, in India, stigma is prevalent against people who have contracted the virus, healthcare professionals, and, in general, front-line workers (Chatterjee, Bhattacharyya, Bhattacharyya, Gupta, Das, & Banerjee, 2020). The pandemic has also exacerbated psychological disorders such as anxiety, anguish, and fear in the population, further generating maladaptive responses such as stigma violence. (Matus & cols., 2020).

According to Shreyaswi and Shashwath (2020), the longer the lockdown, the worse the mental health reported. Specifically, symptoms such as post-traumatic stress, avoidance behaviors, and anger have been recorded. The authors mention that variables generating anxiety include boredom, frustration, financial insecurity, and the feeling of isolation. The media further exacerbate anxiety through sensational headlines and a feeling of bombardment. Shreyaswi and Shashwath (2020) propose establishing a defined strategy to integrate mental health services into the public health response to COVID-19 to mitigate the long-term effects.

Kundapur, Rashmi, Sachin, Falia, Remiza & Bharadwaj (2020) analyzed disease trends based on available data from various sources, including the WHO, international organizations', governments, and websites. For instance, in India, data was taken from the Ministry of Health, Family, and Welfare websites of individual states since January 2020. The authors propose reconsidering strategies to contain the disease's spread since it is not yet fully understood. Furthermore, they note it is perplexing that there are no differences in approach by demographics. They concluded that it is crucial to have a centralized system collecting information in a standardized way.

Liotta, Marazzi, Orlando & Palombi (2020) published a study on social connection as a risk factor for the spread of COVID-19 among older adults in Italy. They report that 33% of the total Italian population lives alone, and 53.1% cohabit with two people per household. The remaining population averages between 3 and 5 people per household. According to Liotta et al. (2020), more than 50% of the population aged 85+ live alone, and in some

regions of northern Italy, the percentage reaches 75%. This scenario has reduced the risk of virus spread. The results reveal no relationship between social connection and the spread of the virus in older adults.

Meanwhile, in the United States of America, McFadden, Malik, Aguolu, Willebrand, and Omer (2020) reported a study to understand risk perceptions about the COVID-19 outbreak in the adult population. Of 718 participants, 69% trusted information from scientists. However, the perception of risk was low (5 out of 10).

In Brazil, to profile the population through the expanded model of health beliefs, Fernandes (2020) applied an instrument with 24 items on the perception of risk by COVID-19. The questionnaire included a section related to behaviors and attitudes regarding the motivation to improve health. The sample size was 277 adults.

Fernandes (2020) incorporates psychometric values that prove reliability and validity. The results indicate significant differences in perceived susceptibility and severity dimensions. This approach allows to identify individual beliefs' profiles quickly, directly, and quantitatively for each dimension, enabling effective communication processes and public health education (Fernandes, 2020).

In Paraguay, Rios-González (2020) reported on a cross-sectional study conducted through an online survey on adults, including some university students. The sample was made up of 3,141 people from the country's provinces, including Asunción and its metropolitan area. The results show that 88.35% have not visited any crowded places. 74.31% reported having worn a mask when they needed to go out. The global knowledge of essential aspects related to COVID-19 and protection measures was 62%, which is considered low. The result is striking since most of them are university students expected to have greater intelligence and general knowledge. Finally, Rios-González recognizes the necessity of implementing mass education campaigns to increase understanding of COVID-19.

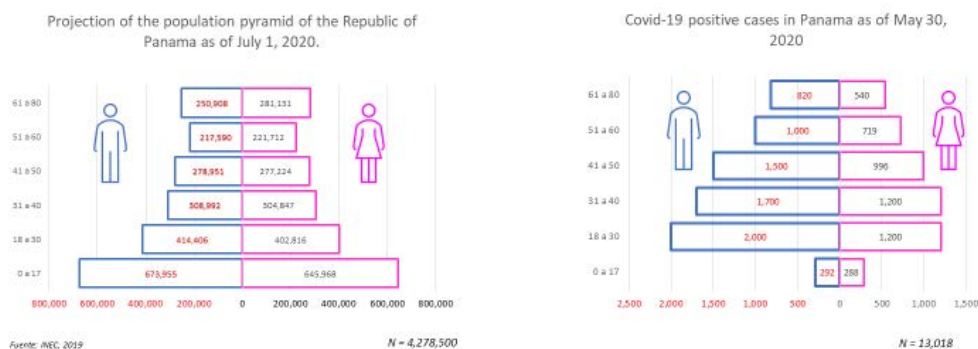
In Mexico, Contreras-Ibáñez (2020) reports high-stress levels among the population, according to the COVIDiStress Global Survey's global parameters. Contreras-Ibáñez (2020) coordinated the application with a sample of 6,424 cases. Among the main results, it stands out that women experience more physical or emotional tension than men. Simultaneously, they face a double journey, and the pressure they feel when trying to carry them out in pandemic conditions leads to additional difficulty. At the same time, it was observed that they face additional responsibilities due to the pandemic.

As of May 30, 2020, in Panama, the number of infected males far exceeds females (7,668 men, representing 59% of the infected population). The total number of positive cases registered in the country to date is 13,018

and 330 deaths (2.53%), according to data provided by the Ministry of Health and the Gorgas Institute (MINSA-GORGAS, 2020).

The most affected group are males between 18 to 30 years old (2,292 cases of infection who represent 18.69% of the overall infections). This is also the group with the highest risk as it will be discussed later. Next in order of most to least affected are: 31 to 40 years old, or 1,700 (13.86%) cases, from 41 to 50 years representing 1500 (12.23%) cases, those from 51 to 60 years 1,000 cases (8.16%) and individuals from 61 to 80 years 820 (6.69%) cases. Panama's projected population breakdown as of July 2020 can be seen in graph 1 (INEC, 2019).

Graph No.1. Comparison of the projection of the population pyramid and positive cases for Covid-19 in Panama



Likewise, women's cases were given the same risk assessment as a function of age. The age group of 18 to 30 leads the list with 1,488 (12.14%) positive cases. The age group of 31 to 40 years has 1,200 (9.79%), from 41 to 50 years, 966 (8.12%); from 51 to 60 years 719 (5.86%); and 61 to 80 with 547 (4.46%) cases.

Method

A cross-sectional, correlational, and predictive study was carried out in Panama to evaluate the attitudes to predict the risk variables before lockdown by COVID-19.

The instrument had two sections. The first section evaluated sociodemographic data; the other, with 36 items on the Likert type scale, measured lockdown attitudes.

The psychometric characteristics had a Cronbach's alpha reliability $\alpha = .921$ and average variance of 53.85% for three factors (cognitive, affective, and behavioral). The total participants were 233 Panamanian adults of both sexes. The measurements were made between April 17 and April 30, 2020 (Matus & Matus, 2020).

The Likert-type scale's 36 items were grouped into three factors (cognitive, affective, and behavioral). Likewise, the full scale was arranged to know the participants' average Attitude, where one is "strongly disagree," and five represents "strongly agree."

The scale has 36 items grouped into three factors: cognitive, affective, and behavioral. Each item can have values from 1 to 5 that correspond to the Likert "type" scale. There may be cases where one or more questions are not answered. To interpret the results, the scores were added and the risk index located

The 12 items that make up the cognitive factor are number 1, 2, 3, 5, 6, 7, 16, 17, 18, 19, 20, 54. As for a scale, low scores range from 0 – 20 (RISK), average scores range from 21 – 40 (NORMAL), and the high scores range from 41 – 60 (HEALTHY).

In the case of the affective factor, the items are: 22, 25, 26, 29, 30, 31, 32, 35, 36, 37, 39, 40, 41, 42, 43. The low scores range from 0 – 25 and are regarded as HEALTHY. Average scores are from 26 – 50 (NORMAL), and high scores range from 51 - 75 (RISK).

The nine questions that make up the behavioral factor are 4, 9, 13, 45, 46, 48, 49, 50, 51 with low scores ranging from 0 – 15 and regarded as RISK; average scores range from 16 – 30 (NORMAL), and the high scores range between 31 - 45 which is considered to be HEALTHY

The instrument recorded sex, age, schooling, occupation, employment status, number of inhabitants in the home (including the person who answered the instrument), number of rooms (considering that 1 living room, 1 dining room, 1 kitchen, 1 bathroom, and 2 bedrooms) and the attitude towards lockdown (variables for risk) from every participant.

The average age of the 78 men was 39 years and 38 in the 155 female participants. The sample consisted of 78 (33.5%) men and 155 (66.5%) women. 35% of the participants reported postgraduate education, 54% the university level, 8% have technical studies, and 3% with high school education (Matus & Matus, 2020).

Snowball sampling was employed (e.g., emails, WhatsApp, social networks), spreading the instrument by email and WhatsApp.

An ex post facto, cross-sectional, causal correlational non-experimental design with a regression hypothesis ($y = m \cdot x + b$) was used to predict risk variables for COVID-19. The Appendix of this document presents some statistical analysis of the attitude as a function of different factors.

Finally, it is worth mentioning that the study's limitations are the social desirability bias of the participants and difficulties in accessing the internet. Furthermore, the present study cannot be replicated due to the specific conditions in which the data was collected—everything was measured during

COVID-19 lockdown. The lockdown measures are now more flexible, and there is knowledge *a priori* that prevents us from repeating the study.

Results

In 16 of the 35 items, the Student's T-test revealed significant differences for independent samples. Table 1 shows the results.

Table 1. Differences based on sex

	Sex						
	Male n = 78		Female n = 155				
	\bar{x}	σ	\bar{x}	σ	t	gl	P
11. Work from home	3.78	1.43	3.37	1.45	2.04	231.00	.04*
36. I study what I like	3.94	1.7	3.47	1.25	2.95	176.82	.00**
33. I exercise	3.33	1.33	2.96	1.34	2.01	231.00	.05*
25. I feel like a prisoner	1.90	1.11	2.38	1.26	-2.99	172.66	.00**
20. I feel isolated	2.05	1.17	2.58	1.38	-3.06	178.59	.00**
24. I feel worried	2.72	1.23	3.09	1.35	-2.05	231.00	.04*
15. I feel helpless	1.86	1.08	2.44	1.31	-3.60	183.34	.00**
14. I feel vulnerable	2.08	1.15	2.74	1.35	-3.92	178.52	.00**
18. I feel scared	2.24	1.19	2.70	1.28	-2.62	231.00	.01**
21. I feel angry	1.83	1.04	2.25	1.20	-2.58	231.00	.01**
19. I feel annoyed	1.78	1.04	2.34	1.34	-3.47	191.74	.00**
17. I feel in danger	2.15	1.22	2.63	1.32	-2.64	231.00	.01**
13. I feel confused	1.91	1.10	2.54	1.35	-3.79	186.04	.00**
22. I feel uncertain	2.50	1.33	3.01	1.31	-2.80	231.00	.01**
34. I talk with my friends.	3.86	1.09	3.51	1.17	2.20	231.00	.03*
29. I dance	2.47	1.48	2.92	1.38	-2.28	231.00	.02*

* $p \leq .05$. ** $p \leq .01$

The results indicate that women are at risk psychosocial, considering that the averages obtained are significantly lower than men in questions 11, 36, 33, and 34. The situation is more delicate for males than females since they have low scores on items 13, 14, 15, 17, 18, 19, 20, 21, 22, 24, 25, and 29. Table 2 shows the differences by age group. The grouping criterion is related to the information on the highest epidemiological incidence of Covid-19 infection in Panama. The items that do not appear, such as 13 and 18, are due to no statistically significant differences.

Table 2. Differences by age group

	Age group						
	18-50 n = 186		51 – 80 n = 46				
	\bar{x}	σ	\bar{x}	σ	t	gl	p
10. I eat the necessary	3.78	1.13	4.15	1.01	-2.01	230.00	.05*
08. I watch tv news	3.21	1.25	3.93	1.00	-4.18	83.61	.00**
11. I work from home	3.38	1.48	4.04	1.21	-3.17	81.79	.00**

36. I study what I like	3.53	1.22	3.98	1.11	-2.26	230.00	.02*
02. I wash my hands	4.23	1.00	4.63	0.68	-3.26	99.21	.00**
01. I inform myself about COVID-19	3.88	1.05	4.37	0.80	-2.95	230.00	.00**
05. I talk with my family about COVID-19	3.72	1.14	4.17	1.16	-2.40	230.00	.02*
33. I exercise	2.97	1.33	3.52	1.33	-2.51	230.00	.01**
03. I know how COVID-19 transmits.	4.14	0.94	4.48	0.75	-2.26	230.00	.02*
04. I know what to do in case that I am a COVID-19 patient.	3.99	1.02	4.35	0.79	-2.19	230.00	.03*
12. I forward truthful information	3.63	1.24	4.24	0.87	-3.87	95.03	.00**
06. I can identify COVID Identify the symptoms de Covid-19	3.82	1.09	4.28	0.91	-2.64	230.00	.01**
09. I know the Ministry of Health Decrees	3.68	1.12	4.15	0.97	-2.89	77.64	.00**
17. I feel in danger	2.39	1.27	2.83	1.42	-2.06	230.00	.04*
31. I do manual activities	2.67	1.44	3.26	1.32	-2.54	230.00	.01**
32. I read	3.32	1.38	3.96	1.17	-3.19	78.63	.00**
30. I write	2.73	1.48	3.37	1.39	-2.76	72.42	.01**
35. I watch TV	3.03	1.37	3.80	0.96	-4.46	97.85	.00**

* $p \leq .05$. ** $p \leq .01$

Those over 50 years of age obtained higher averages in the 18 questions that had statistically significant differences. Tables 3 and 4 show the statistically significant differences by sex, age group, and factors.

Table 3. Differences by sex and factor

	Sex						
	Male n = 78		Female n = 155				
	\bar{x}	σ	\bar{x}	σ	t	gl	p
Affective Factor	2.18	0.86	2.64	0.90	-3.76	160.23	.00**

** $p \leq .01$

Although the averages for both sexes are low, men are more emotionally vulnerable than women.

Table 4. Differences by age group and factor

	Age						
	18-50 n = 186		51 - 80 n = 46				
	\bar{x}	σ	\bar{x}	σ	t	gl	p
Cognitive factor	3.80	0.85	4.27	0.61	-4.27	92.03	.00**
Behavioral factor	2.72	0.85	3.07	0.78	-2.49	230.00	.01**

** $p \leq .01$

Participants in the age group between 51 and 80 show higher cognitive and behavioral values. The following table shows the scores of general attitudes concerning age groups. Table 6 indicates the values of the correlation analysis.

Table 5. Attitudes and differences by age group

	Age group				t	gl	p
	18-50 n = 186		51 - 80 n = 46				
	\bar{x}	σ	\bar{x}	σ			
Attitudes	2.90	0.61	3.16	0.55	-2.59	230.00	.01**

**** $p \leq 01$**

Table 6. Pearson's r correlation

		Cognitive Factor	Affective Factor	Behavioral Factor	Attitude
Cognitive Factor	Pearson Correlation.	1	.225**	.634**	.789**
	Sig. (bilateral)		0.001	0.000	0.000
	N		233	233	233
Affective Factor	Pearson Correlation.		1	0.040	.731**
	Sig. (bilateral)			0.547	0.000
	N			233	233
Behavioral Factor	Pearson Correlation.			1	.615**
	Sig. (bilateral)				0.000
	N				233
Attitude	Pearson Correlation.				1
	Sig. (bilateral)				
	N				
** Correlation is significant at the 0.01 level (bilateral).					

There is a strong and direct statistically significant relationship between the three factors and attitudes. The result is summarized in tables 7 and 8.

For the predictive model, the data was subjected to linear regression analysis. The predictive risk model has a 99.9% data fit with a significance of 0.001, as shown in Graph No.2. The correlation for the other factors and attitudes is presented in the Appendix.

Table 7. Linear regression analysis

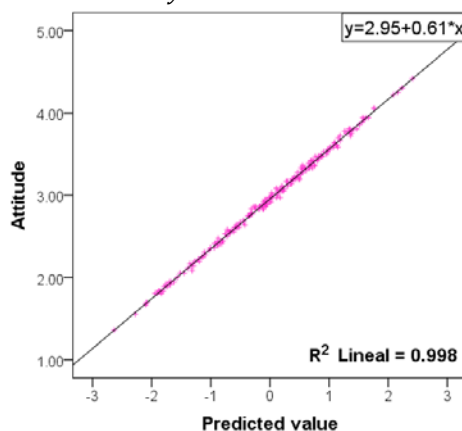
Effect	Sum of squares	gl	Quadratic Average	F	p	Relevance
Corrected Attitude model	85.14	4	14.19	10,852.38	0.000	

Transformed factor.	Affective	29.56	1	29.56	22,603.62	0.000	0.68
Cognitive transformed.	factor	9.43	1	9.43	7,213.43	0.000	0.22
Behavioral transformed.	factor	4.44	1	4.44	3,394.79	0.000	0.10
Remainder		0.30	228	0.00			
Corrected total		85.44	232				

Table 8. Risk prediction model

Model	F	R2	^R2	B	Standard Error	β	p
Model 1 Affective	34560.006 (3-229)	0.998	0.998	0.411	0.002	0.615	.001

Graph No.2. The observed prognosis for Attitude corresponding to the linear risk model
 $y = 2.95 + 0.61x$.



Discussion

Businessman ranging 18 and 30 years old, have considerable psychosocial risk factors due to lockdown. These findings agree with those reported by Kundapur et al. (2020) regarding young people belonging to the most vulnerable group in many countries. This discovery is particularly worrying since not only is the rate of transmission and death from the virus higher in men, but they are also more exposed to psychosocial risk factors. In other words, it implies that susceptibility appears both in the biological, as well as the psychological and social spheres.

Females showed a better result in the affective factor, which contrasts with the results reported by Contreras-Ibáñez (2020), who points out that women experience more emotional tension and feel additional pressure when

trying to face their double burden in a pandemic situation. Thus, affective management differs among the female population depending on the geographic region.

The differences between men and women coincide with those reported by Bischof, Oertelt-Prigione, Morgan, and Klein (2020). These authors mention that it is essential to differentiate between women and men due to their vulnerability, especially men, who are exposed due to their behavior. Social norms and other socially relevant variables change with culture. Likewise, Buzzi, Tucci, Ciprandi, Brambilla, Caimmi, Ciprandi, and Marseglia (2020) found that male adolescents have a worse attitude towards lockdown than women. The authors justify this situation because men are socially related outdoors, unlike women.

Regarding the differences by age, this study partially coincides with that reported by Liotta, Marazzi, Orlando, and Palombi (2020), regarding the spread of the virus among older adults in Italy, by household size and population structure. The age group under 51 years of age has a higher risk of contagion. This result coincides with those reported by Joo and Kang (2020), who mention that young generations have the highest percentage of confirmed cases.

Czeisler et al. (2020) state a significant association between the feeling of security against COVID-19 and the age of young adults, implying they do not perceive a risk of infection or severe disease compared to those over 65 years old. It is also worrisome that, if coexistence is carried out in violation of the inhabitants' living space, it becomes counterproductive, potentially triggering erratic and violent behavior, as demonstrated by Calhoun (1962) and Hall (1966).

Finally, the lack of knowledge about COVID-19 that was evidenced by the sample of business people is striking, since they urge or pressure the national authorities to suspend lockdown for the economy's reactivation, even against the preventive measures that the Ministry of Health has given daily.

Conclusions

Regardless of the COVID-19's well-known lethality, those individuals sampled neglect social distancing, and stay-at-home measures. This situation is causing a geometric progression of positive cases.

People are facing a series of unprecedented changes. Until recently, it had been possible to contain viruses in some regions of the world. However, the population cannot comply with the recommendations from the epidemiologists, which requires further investigation. Professionals in social psychology have assumed the responsibility of identifying risk by measuring attitudes from the theory of Fishbein and Ajzen to predict behavior.

Women have a better attitude towards lockdown, which represents a protection factor. As for age, there is a stark contrast between those over 51 years old compared to young adults (18 to 50 years old). The latter being those who are at risk and, according to national data, it is also the population containing more positive cases of COVID-19.

In terms of the number of rooms, the average is 7. Thus, the average house has at least one living room, one dining room, one kitchen, one bathroom, and three bedrooms, which, related to the average number of people (up to six) that coexist, seems to be limit for a healthy coexistence. Those at most psychosocial risk of not knowing what to do during the quarantine are young people between 18 and 30 who have elementary education. Regarding the affective factor, men between 18 and 30 years old are the most exposed. We also conclude that despite the remaining sample being at lower risk, overall, the emotional impact is overwhelming. Finally, the risk due to unfavorable attitudes towards lockdown by Covid-19 are again men from 18 to 30 years old and, in general, entrepreneurs.

Within the inferential results, observed perceived significant differences in the vulnerability of men concerning women. The same goes for people younger than 50 years old, which reveals a possible risk profile.

We also verified a strong and direct correlation between attitudes' affective, cognitive, and behavioral factors.

We found that the data fit a linear correlation that allowed us to conclude that the contagion risk among Panamanians is mainly due to the affective factor. People are incapable of managing their emotions.

Finally, we highlight the low number of studies in Panama related to psychosocial risk and studies associated with the pandemic.

Conflict of interest

The authors declare that they do not have a competing interest in conducting and reporting this study. This research has been shown following the American Psychology Association Code of Conduct and the authors' national ethics guidelines. Participation was voluntary, and anonymity has been guaranteed. The submitted work is an original manuscript and has not been published entirely nor in part in other journals or media outlets.

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Appendix 1

Instruments and correlations.

A survey was carried out through Google forms ©, between April 17 and 30, 2020. The study had 233 participants (78 male and 155 female). The average age for males was 39 years old, and for females, it was 38. Descriptive statistics were employed to characterize the sample: 35% of the participants reported having studied at least a postgraduate degree, 54% the university

level, eight percent a technician, and three percent, studied secondary. A T-test was used to determine statistically significant differences in the Attitude of men and women towards lockdown. 16 of the 36 items resulted in statistically significant differences between men and women. Furthermore, women are at risk considering that the averages obtained are significantly lower than those of men in question 11. *I work from home* ($\bar{X} = 3.37$, d.s. 1.45), 36. *I study what I like* ($\bar{X} = 3.47$, d.s. 1.25), 33. *I exercise* ($\bar{X} = 2.96$, d.s. 1.34), y 34. *I talk with my friends* ($\bar{X} = 3.51$, d.s. 1.17).

For males, the situation is more delicate since items 13. *I feel confused* ($\bar{X} = 1.91$, d.s. 1.10), 14. *I feel vulnerable* ($\bar{X} = 2.08$, d.s. 1.15), 15. *I feel helpless* ($\bar{X} = 1.86$, d.s. 1.08), 17. *I feel in danger* ($\bar{X} = 2.15$, d.s. 1.22), 18. *I feel scared* ($\bar{X} = 2.24$, d.s. 1.19), 19. *I feel upset* ($\bar{X} = 1.78$, d.s. 1.04), 20. *I feel isolated* ($\bar{X} = 2.05$, d.s. 1.17), 21. *I feel angry* ($\bar{X} = 1.83$, d.s. 1.04), 22. *I feel uncertain* ($\bar{X} = 2.50$, d.s. 1.33), 24. *I feel worried* ($\bar{X} = 2.72$, d.s. 1.23), 25. *I feel imprisoned* ($\bar{X} = 1.90$, d.s. 1.11), 29. *I dance* ($\bar{X} = 2.47$, d.s. 1.48), they are significantly less than in women, in addition to the *affective factor* ($\bar{X} = 2.18$, d.s. 0.86).

Item Response Dimension

The participants' responses were subjected to an analysis called the reagent discrimination index, which identifies each item's effectiveness. In this case, the high scores were compared with the low ones through the parametric inferential statistics test for the T-Test for independent samples. The items (which are statistically different) are effective. Next, we tested the reliability analysis of the test, which allows verifying the possible generalization of the results to similar populations and their replicability (Dorantes, 2018). For this purpose, we decided to use the inferential statistical analysis called Cronbach's Alpha. The results show that the total scale is reliable because it presents a score $\alpha = 0.921$. In this case, it is a question of high external or global reliability. Subsequently, a construct validity analysis was performed through the so-called factor analysis statistic. For factor analysis, the method of principal components normalization Varimax with Kaiser-Meyer-Olkin was used, and it converged in 5 iterations. The items that make up the factors, the weights of the factor loadings, the corrected total item correlation (r_{it}), and the factors' reliability are detailed in the following tables.

Table A1. Factorial Structure of Attitudes towards the quarantine by Covid-19

Factor 1. Cognitive (Alpha = 0.925)			
Explained Variance = 23.00%			
No.	Reactivo	r_{it}	Carga
06	I inform myself about COVID-19	0.81	0.84
05	I wash my hands	0.81	0.83
16	I know how COVID-19 transmits	0.82	0.81

17	I know what to do in case that I am a COVID-19 patient.	0.76	0.76
07	I talk with my family about COVID-19	0.70	0.74
19	I can identify COVID symptoms.	0.76	0.74
54	I comply with the quarantine	0.70	0.71
02	I see the news	0.63	0.68
20	09. I know the Ministry of Health Decrees	0.69	0.68
01	I eat the necessary	0.57	0.63
03	I work from home	0.52	0.63
18	I forward trustworthy information	0.60	0.62

Table A2. Estructura Factorial de Actitudes ante la cuarentena por Covid-19

Factor 2. Cognitive (Alfa = 0.927)			
Explained Variance = 21.34%			
No.	Reactivo	r_{it}	Carga
42	I feel confused	0.76	0.81
31	I feel vulnerable	0.76	0.81
30	I feel defenseless	0.75	0.80
32	I feel overwhelm	0.68	0.74
40	I feel in danger	0.72	0.73
35	I feel scared	0.70	0.73
39	I feel annoyed	0.63	0.71
26	I feel isolated	0.64	0.69
36	I feel angry	0.61	0.69
43	I feel uncertain	0.65	0.69
41	I feel tired	0.63	0.68
29	I feel worried	0.65	0.67
25	I feel like a prisoner	0.56	0.62
37	I feel at risk	0.57	0.60
22	I Font trust the authorities	0.44	0.48

Table A3. Factorial Structure of Attitudes towards the quarantine by Covid-19

Factor 3. Behavioral (Alfa = 0.849)			
Explained Variance = 5.51%			
No.	Reactivo	r_{it}	Carga
50	I sing	0.61	0.78
51	I dance	0.56	0.72
49	Escribo	0.66	0.70
45	I do manual activities	0.57	0.63
48	I read	0.66	0.59
09	I do excersise	0.53	0.56
46	I chat with my friends	0.59	0.40
13	I watch Television	0.41	0.16
04	I study what I want	0.52	0.30

The instrument had external and internal reliability and content and construct validity, as shown in the previous tables.

Linear model

Linear regression was calculated from the factors to know the effect that each of them has on attitudes towards lockdown, finding a model $y = 2.95 + 0.61x$, with a linear $R^2 = 0.998$. This is shown in Graph A1. The relationship between attitude and affective, cognitive, and behavioral factors is established in Graph A2.

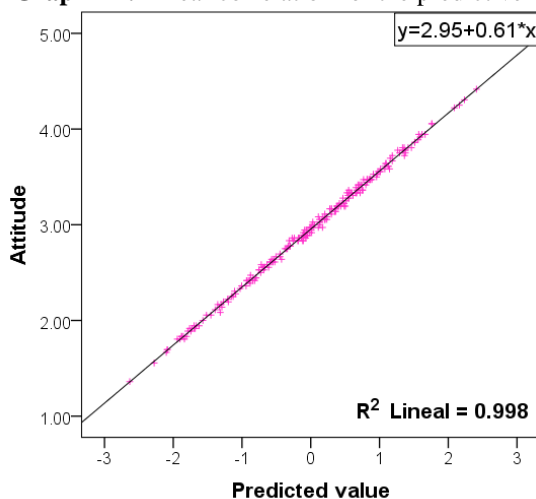
Graphs A2, A3, and A4 show the positive relationship that exists between attitudes and each one of the factors. The relationship between the cognitive factor and the Attitude is direct, positive, and strong, which is evidenced by the value of the linear $R^2 = 0.623$ (Graph A2).

The three factors that make up the attitudes allow us to visualize the dispersion in each of them. The lowest values in the distribution belong to the cognitive factor since the participants knew about the virus. Thus, they were aware of the prevention protocol.

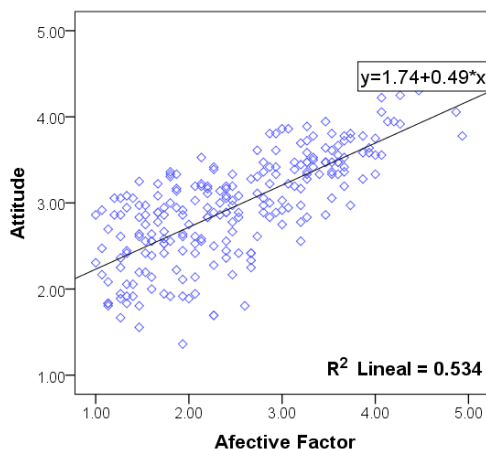
The relationship between the affective factor and the Attitude is direct, positive, and moderate, which is evident in the value of the linear $R^2 = 0.534$. For the affective factor, there is greater dispersion in the responses, possibly due to changes in the way they managed their emotions. This is summarized in Graph A3.

The relationship between the behavioral factor and Attitude is direct, positive, and weak, evidenced by the value of linear $R^2 = 0.379$. The largest dispersion is perceived in the behavioral factor; these values could be related to the population's autonomy even when the Health Authorities instituted curfews and a full quarantine. The relationship is shown in Graph A4.

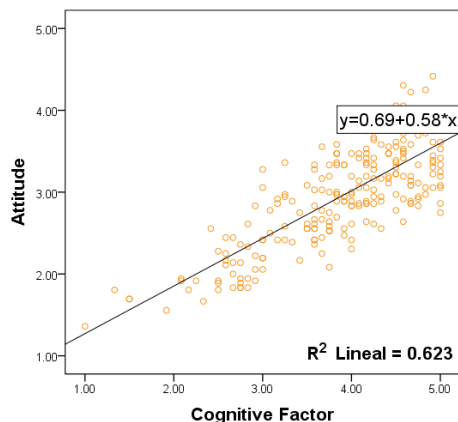
Graph A1. Linear correlation for the predictive model.



Graph A2. Linear correlation for the affective factor v. Attitude



Graph A3. Linear correlation for the cognitive factor v. Attitude. The highest dispersion is observed in this factor



Graph A4. Linear correlation for the behavior factor v. Attitude

